

ECAT Mathematics Chapter 1 Number System

Sr	Questions	Answers Choice
1	$\sqrt{-1} b =$	A. b B. 2 C. $2b$ D. None of these
2	$\forall a, b, c \in \mathbb{R}$ and $c > 0$, then	A. $a > b \Rightarrow ac < bc$ B. $a > b \Rightarrow ac > bc$ C. $a < b \Rightarrow ac < bc$ D. None of these
3	Question Image	
4	14 is not a	A. Prime number B. Whole number C. Even number D. Real number
5	Every recurring decimal represents	A. A natural number B. A rational number C. An irrational number D. A whole number
6	The multiplicative inverse of 4 is	A. -4 B. $-1/4$ C. $1/4$ D. 1
7	In \mathbb{R} , the multiplicative inverse of a is	A. 0 B. 1 C. $-a$ D. $1/a$
8	Name the property used in $4 + 9 = 9 + 4$	A. Associative property of addition B. Commutative property of addition C. Distributive property D. Additive identity
9	$i =$	
10	Question Image	A. -8 B. 8 C. $8i$ D. 32
11	$\forall x, y \in \mathbb{R}$ and $x > 0, y > 0$, if $x > y$	D. None of these
12	Name the property used in $4.1 + (-4.1) = 0$	A. Additive inverse B. Multiplication inverse C. Additive identity D. Multiplication identity
13	The order axioms are satisfied by set of	A. C B. C and R C. R D. None of these
14	$\forall a, b \in \mathbb{R}$, $ab = ba$ is a	A. Commutative law of multiplication B. Closure law of multiplication C. Associative law of multiplication D. Multiplicative identity
15	The multiplicative inverse of x^{-1} is	A. x B. $a-2$ C. 0 D. 1
16	Question Image	
17	Question Image	
18	The square root of every incomplete square is an	A. Rational numbers B. Even numbers C. odd numbers D. Irrational numbers

19 $\ln(x + iy)$ x is the known as

- A. Imaginary part of complex number
- B. Real part of complex number
- C. Complex number
- D. None of above

20 $\forall a, b, c \in \mathbb{R}, a > b \wedge b > c \Rightarrow a > c$ is

- A. Trichotomy property
- B. Transitive property
- C. Symmetric property
- D. Additive property
